Assignee: Microvision, Inc.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application. Where claims have been amended and/or canceled, such amendments and/or

cancellations are done without prejudice and/or waiver and/or disclaimer to the claimed and/or disclosed subject matter, and the applicant and/or assignee reserves the right to claim this subject

matter and/or other disclosed subject matter in a continuing application.

Listing of Claims:

1. (Currently amended): A method for resolving the most probable digital fingerprint

from a circuit, the circuit outputting a digital fingerprint comprising a series of bits, the method

comprising the steps of:

(a) polling the circuit, the circuit being disposed on a silicon die and comprising two or

more devices formed on the silicon die, for a digital fingerprint, the digital fingerprint being

based at least in part on an electrical characteristic of the two or more devices of the circuit due

to a process by which the silicon die was manufactured;

(b) recording the digital fingerprint:

(c) repeating steps (a) and (b) a desired number of times to result in [[a]] one or more

fingerprinting [[value]] values for a corresponding iteration of said polling and said recording;

and,

(d) calculating a most probable digital fingerprint from the one or more fingerprinting

values vielded in steps (a) - (c);

wherein the digital fingerprint comprises at least two sections, each section comprising a

series of bits, and wherein the method further comprises the steps of

Page 3

Docket No.: XNT 00.03

Application Number: 09/598,793 Filing Date: June 21, 2000

Title: DIGITAL FINGERPRINT IDENTIFICATION SYSTEM

Assignee: Microvision, Inc.

(e) calculating a stability value of each bit in said digital fingerprint;

(f) for each section, storing the stability value of the least stable bit in each section in

association with a section identifier and the most probable digital fingerprint calculated in step

(d).

2. (Original): The method of claim 1 further comprising the step of (e) storing the most

probable digital fingerprint

3. (Previously presented): The method of claim 1 further comprising the step of (e)

calculating a stability value of at least one bit in said digital fingerprint.

4. (Original): The method of claim 3 further comprising the step of (f) storing the most

probable digital fingerprint in association with the stability value calculated in step (e).

Claim 5 (Canceled)

6. (Currently amended): An apparatus providing a digital fingerprint

comprising

a digital fingerprint circuit, said digital fingerprint circuit outputting a digital fingerprint

comprising a plurality of bits corresponding to electrical characteristics of a plurality of devices, the digital fingerprint circuit being disposed on a silicon die and comprising the plurality of

devices formed on the silicon die, the digital fingerprint being based at least in part on an

Docket No.: XNT 00.03

electrical characteristic of the plurality of devices of the circuit due to a process by which the silicon die was manufactured:

a control circuit, said control circuit operably connected to the digital fingerprint circuit and programmed to iteratively read the digital fingerprint a predetermined number of times; and,

wherein the control circuit calculates the most probable digital fingerprint based on the iterative reads of the digital fingerprint circuit;

wherein the digital fingerprint comprises a plurality of sections, each of the sections comprising a plurality of bits;

wherein the control circuit calculates a stability value for each bit of the digital fingerprint; and,

wherein, for each section of the digital fingerprint, the control circuit stores in the memory the stability value of the least stable bit.

7. (Original): The apparatus of claim 6 further comprising

a memory operably connected to the control circuit;

wherein the control circuit stores the most probable digital fingerprint in the memory.

8. (Original): The apparatus of claim 6 wherein the control circuit calculates a stability value for at least one bit of the digital fingerprint based on the iterative reads of the digital fingerprint circuit.

Claim 9 (Canceled)

10. (Original): The apparatus of claim 9 further comprising means for transmitting the digital fingerprint and the stability values stored in the memory.

- 11. (Currently amended): A method for resolving an identification, said method comprising the steps of
- (a) receiving a digital fingerprint corresponding to characteristics of a circuit, the circuit being disposed on a silicon die and comprising two or more devices formed on the silicon die. the digital fingerprint being based at least in part on an electrical characteristic of the two or more devices of the circuit due to a process by which the silicon die was manufactured;
- (b) dividing the digital fingerprint into at least two sections, the sections comprising a series of bits:
 - (c) storing the sections in association with an index identification in a database; [[and]]
 - (d) repeating steps (a) (c) a desired number of times[[.]];
 - (e) receiving a digital fingerprint;

of

- (f) dividing the digital fingerprint into at least two sections, said sections comprising a series of bits;
- (g) scanning the database for sections stored in step (c) that match the sections of step (f); and
- (h) selecting the index identification associated with a statistically sufficient number of matching sections.
 - 12. (Original): The method of claim 11 wherein said storing step (c) comprises the steps

Page 6

Docket No.: XNT 00.03

Application Number: 09/598,793 Filing Date: June 21, 2000 Title: DIGITAL FINGERPRINT IDENTIFICATION SYSTEM

Assignee: Microvision, Inc.

(c1) storing each section in a separate table in association with the index identification.

13. (Original): The method of claim 12 wherein separate database servers support each

table

Claim 14 (Canceled)

15. (Previously presented): A method for identifying a digital fingerprint corresponding

to an integrated circuit from a database including a population of fingerprints, the method

comprising the steps of

(a) receiving a digital fingerprint of the integrated circuit, the integrated circuit

comprising two or more devices formed on the integrated circuit, the digital fingerprint being

based at least in part on an electrical characteristic of the two or more devices of the integrated

circuit due to a process by which the integrated circuit was manufactured;

(b) scanning for sections of the fingerprints stored in the database that match

corresponding sections of the fingerprint received in step (a);

(c) selecting the fingerprint stored in the database associated with a statistically sufficient

number of matching sections.

16. (Previously presented): The method of claim 15 wherein the database comprises at

least two section tables each of which stores a separate section of the fingerprints in association with a corresponding index identification; and wherein the scanning step (b) comprises scanning

the section tables with corresponding sections of the digital fingerprint received in step (a).

Page 7 Docket No.: XNT 00.03

Application Number: 09/598,793 Filing Date: June 21, 2000 Title: DIGITAL FINGERPRINT IDENTIFICATION SYSTEM

Assignee: Microvision, Inc.

17. (Original): The method of claim 16 wherein separate database server support each

section table

18. (Currently amended): The method of claim 15 further comprising the step of

(4g) transmitting the most probable digital fingerprint calculated in step (d), and the

section identifiers and corresponding stability values stored in step (f).

19. (Currently amended): The method of claim 15 further comprising the step of

(dg) transmitting at least two section identifiers and corresponding sections of the most

probable digital fingerprint, the sections having the highest stability values calculated in step (e).

20. (Original): The method of claim 19 wherein the number of sections transmitted in

step (g) is statistically sufficient to find a matching digital fingerprint.

21. (Previously presented): The method of claim 15, further comprising the steps of

(e) receiving a digital fingerprint, the digital fingerprint comprising at least two sections.

wherein the sections comprise a series of bits;

(f) receiving section identifiers and corresponding stability values for each section of the

digital fingerprint;

(g) using the sections having the highest stability values, scanning the database to locate

matching sections; and,

Docket No.: XNT 00.03

Ittle: DIGITAL FINGERP

(h) selecting the index identification associated with a statistically sufficient number of

matching sections.

22. (Original): The method of claim 21 further comprising the steps of

(i) if no index identification corresponds to a statistically sufficient number of matching

sections, scanning the database for all sections stored in step (c) that match the sections received

in step (e); and,

(j) selecting the index identification associated with a statistically sufficient number of

matching sections.

23. (Previously presented): A method for identifying a digital fingerprint from a

database including a population of fingerprints, the method comprising the steps of

(a) receiving a digital fingerprint, the digital fingerprint comprising at least two sections.

wherein the sections comprise a series of bits, the digital fingerprint corresponding to

characteristics of a circuit, the circuit being disposed on an integrated circuit and comprising two

or more devices formed on the integrated circuit, the digital fingerprint being based at least in

part on an electrical characteristic of the two or more devices of the circuit due to a process by

which the integrated circuit was manufactured;

(b) receiving section identifiers and corresponding stability values for each section of the

digital fingerprint;

(c) using the sections having the highest stability values, scanning the database to locate

matching sections of the fingerprints stored therein; and,

(d) selecting the fingerprint in the database associated with a statistically sufficient

number of matching sections.

Assignee: Microvision, Inc.

24. (Previously presented): The method of claim 15, further comprising the steps of

(e) receiving at least two section identifiers and corresponding sections of a digital

fingerprint, said sections comprising a series of bits;

(f) scanning the database to find sections stored in step (c) that match sections received in

step (e); and,

(g) selecting the index identification associated with a statistically sufficient number of

matching sections.

25. (Previously presented): A method for identifying a digital fingerprint from a

database including a population of fingerprints, the method comprising the steps of

(a) receiving at least two section identifiers and corresponding sections of a digital

fingerprint, said sections comprising a series of bits, the digital fingerprint corresponding to

characteristics of a circuit, the circuit being disposed on an integrated circuit and comprising two or more devices formed on the integrated circuit, the digital fingerprint being based at least in

part on an electrical characteristic of the two or more devices of the circuit due to a process by

which the integrated circuit was manufactured;

(b) scanning the database to find sections of the stored fingerprints corresponding to the

section identifiers received in step (a) that match the sections received in step (a); and,

(c) selecting the fingerprint associated with a statistically sufficient number of matching

sections.

26. (Original): The method of claim 25 wherein the database comprises at least two

section tables each of which store a separate section of the fingerprints in association with a

Docket No.: XNT 00.03

Assignee: Microvision, Inc

corresponding index identification; and wherein the scanning step (b) comprises the section tables with corresponding sections of the digital fingerprint received in step (a).

 (Original): The method of claim 26 wherein separate database servers support each section table.

28. (Previously presented): An apparatus for identifying a digital fingerprint comprising

a fingerprint section database, the database including digital fingerprints comprising a series of sections stored in association with an index identification, the digital fingerprints corresponding to characteristics of a corresponding circuit, the circuit being disposed on an integrated circuit and comprising two or more devices formed on the integrated circuit, the digital fingerprint being based at least in part on an electrical characteristic of the two or more devices of the corresponding circuit due to a process by which the integrated circuit was manufactured:

a server operably coupled to the fingerprint section database,

wherein the server receives a digital fingerprint and scans the fingerprint section database for a fingerprint associated with a statistically sufficient number of sections that match corresponding sections of the received digital fingerprints

29. (Original): The apparatus of claim 28 wherein the database comprises at least two section tables each of which store a separate section of the fingerprints in association with a corresponding index identification.

Page 11

Application Number: 09/598,793 Filing Date: June 21, 2000 Title: DIGITAL FINGERPRINT IDENTIFICATION SYSTEM Assignee: Microvision, Inc.

Docket No.: XNT 00.03

30. (Original): The apparatus of claim 29 wherein separate database servers support each section table.